| APPLICATION AS FILED - PART 1  (Column 1) (Column 2) (Column 2)  SMALL ENTITY OR SMALL ENTITY  RATE (I) FEE (I) FEE (I)  FEE (I) FEE (I) FEE (I)  FOR 1.16(0), or (r)  FOR 1.16(0) FEE (I)  FEE (I)  FEE (I)  FEE (I)  FOR 1.16(0)  FEE (I)  FEE (II)  FEE (II  | Under the Presentation R<br>PATEN  |                        |                      | 10.00        | TION REC | ORD      | enneden un      | 1                | Mostlop or D | ONB coultof un  |                | ۰۰۰ :<br>۱- مسا |
|---|------------------------------------|------------------------|----------------------|--------------|----------|----------|-----------------|------------------|--------------|-----------------|----------------|-----------------|
| ATPLE DEPENDENT CLAIMS  APPLICATION AS AMENDED — PART II  APPLICATION AS AMENDED — PART II  COlumn 2)  COlumn 3)  Column 4)  Column 3)  Column 3)  Column 4)  Column 4)  Column 3)  Column 5)  Column 6)  Column 6)  Column 6)  Column 6)  Column 7)  Column 7)  Column 8)  Column   | APP                                | LICATION AS F          | ILED - PAR           |              |          | MALI C   | 1               |                  | 100          | THER THAN       | - IY           | 01690           |
| TOTAL CLANS  OF A TIER (1)  OF A TIER (2)  OF A TIER (3)  OF A TIER (3)  OF A TIER (4)  OF A TIER (3)  OF A TIER (4)  OF A TIER (3)  OF A TIER (4)  OF A TIER (4)  OF A TIER (5)  OF A TIER (7)  OF A TIE  | For                                | . NUMBER PLU           | EO . 4               |              |          |          | MIHY            | ~; <sup>()</sup> | R : SI       | VALL ENTITY     |                | • .             |
| TOTAL CALING TOTAL CLARGE TOTAL TOTAL  ATTPLE DEPENDENT CLARGE TOTAL  APPLICATION AS AMENDED – PART II  CLARGE TOTAL  APPLICATION OF MATTER DEPENDENT CLARK OF OFFI 1:600)  TOTAL  APPLICATION OF MATTER DEPENDENT CLARK OF OFFI 1:600  TOTAL  ADDIT REE  TOTAL  TOTA  | (CDFR 1.48(6), (b), or (d)         |                        |                      | OHIDEN EXTRA | - RAT    | EO):     | FEE (1)         | 4                | RATE         | (I) FEE (       |                | •               |
| XMAINTON FIRE TOTAL CLAMB TOTAL TOTAL TOTAL  APPLICATION SIZE TOTAL TOTAL  APPLICATION AS AMENDED - PART II  APPLICATION AS AMENDED - PART II  APPLICATION AS AMENDED - PART II  CLAMS TOTAL  AMENDMENT TOTAL  AMENDMENT PREVIOUSLY EXTRA TOTAL  AMENDMENT PREVIOUSLY EXTRA PREVIOUSLY TOTAL  AMENDMENT PREVIOUSLY EXTRA PREVIOUSLY TOTAL  TOTA  | AROH FEE<br>OFR 1.(800, 0), or (m) |                        |                      | . 3          |          |          |                 | 1                |              | 100             | <u>"- </u> .   | :               |
| TAL CLAMB  OFFICE 16(6)  OFFIC  | CAMINATION                         |                        |                      | <u> </u>     |          |          |                 | 1                |              |                 | -              |                 |
| DEFENCENT CLAIMS  If the specification and drawings exceed 100, sheets of pager, the application size feed dun is \$250 (c) f125 for smalls entify) for season set of pager, the application size feed dun is \$250 (c) f125 for smalls entify) for season set of pager, the application size feed dun is \$250 (c) f125 for smalls entify) for season set of state of the set   | TAL CLAUMR                         | 7                      |                      |              | - L-     |          |                 | <b>]</b>         |              |                 | + .            | •               |
| PLICATION SIZE  If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$120 for standing thereof, See 35 U.S.C. 41(a)(1)(0) and 37 GPR 1.10(a).  LITPLE DEPENDENT CLAIM PRESENT GT GFR 4.16(b)  APPLICATION AS AMENDED - PART II  COlumn 1) (Column 2) (Column 3)  CAMES REMANSIVE REMANSIVE PRESENT PRESENT PRESENT PRESENT PRESENTATION OF MULTIPLE DEPENDENT CLAIM (\$7 GPR 1.16(a))  FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (\$7 GPR 1.16(a))  TOTAL  APPLICATION AS AMENDED - PART II  COLUMN 2) (Column 3)  SMALL ENTITY  OR OTHER THAN SMALL ENTITY  OR OTHER THAN SMALL ENTITY  FRATE (\$1 ADDITIONAL TES (\$1 ADDITIONAL                      | DEPENDENT OF ATMS                  |                        | 20 a                 |              | ] x 6    | 15.      |                 | 1                | .67          |                 |                |                 |
| STATE (8) ADDITIONAL PRESENT OF CAME APPLICATION AS AMENDED - PART (1)  APPLICATION AS AMENDED - PART (1)  COlumn 1) Column 2) Column 3) SMALL ENTITY  APPLICATION AS AMENDED - PART (1)  COLUMN 1 (Column 2) Column 3) SMALL ENTITY  APPLICATION AS AMENDED - PART (1)  COLUMN 1 (Column 2) Column 3) SMALL ENTITY  APPLICATION AS AMENDED - PART (1)  COLUMN 1 (Column 2) Column 3) SMALL ENTITY  APPLICATION AS AMENDED - PART (1)  COLUMN 1 (Column 2) Column 3) SMALL ENTITY  APPLICATION AS AMENDED - PART (1)  APPLICATION AS AMENDED - PART (1)  COLUMN 1 (Column 2) Column 3) SMALL ENTITY  FRATE (8) ADDITIONAL FEE (8)  APPLICATION OF MALENDER PREVIOUSLY EXTRA  FEE (8) ADDITIONAL FEE (9)  APPLICATION OF MALENDER COLUMN (FI CRE 1.16(6))  FREST PRESENTATION OF MALTIPLE DEPENDENT CLAIM (FI CRE 1.16(6))  FREST PRESENTATION OF MALTIPLE DEPENDENT CLAIM (FI CRE 1.16(6))  APPLICATION OF MALTIPLE DEPENDENT CLAIM (FI CRE 1.16(6))  FREST PRESENTATION OF MALTIPLE DEPENDENT CLAIM (FI CRE 1.16(6))  APPLICATION OF MALTIPLE DEPENDENT CLAIM (FI CRE 1.16(6))  APPLICATION OF MALTIPLE DEPENDENT CLAIM (FI CRE 1.16(6))  TOTAL  TOTAL  RATE (8) ADDITIONAL FEE (1)  ADDI  |                                    | title specification    | 8-6                  | /            | × 70     | 1.       |                 | 1 📉              |              |                 | <u>.</u>       | •               |
| SER 1.18(d)  additional 50 sheets of faction thereof. See 35 U.S.C. 41(e)(1)(d) and 37 CFR 1.16(e).  LITPLE DEPENDENT CLAM PRESENT OF CFR 1.16(e).  APPLICATION AS AMENDED - PART II  APPLICATION AS AMENDED - PART II  COlumn 1)  (Column 2)  (Column 3)  (Column 3)  (Column 3)  (Column 3)  SMALL ENTITY  OR  OTHER THAN  SMALL ENTITY  RATE (8)  ADDITIONAL  FEE (8)  ADDITIONAL  TOTAL   | PLICATION SIZE                     |                        |                      |              |          | _        | ·····           | ٠.               | xoroc        | · ·             |                |                 |
| TOTAL  APPLICATION AS AMENDED - PART II  COlumn 1) (Column 2) (Column 3)  APPLICATION AS AMENDED - PART II  COLUMN 1) (Column 3) (Column 3)  FREMAINING HIGHEST PRESENT PREVIOUSLY PRESENT PREVIOUSLY PRESENT PREVIOUSLY PREVIOUSLY PRESENT PREVIOUSLY PREVIOUSLY PRESENT PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PRESENT PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PRESENT TORNAL PREVIOUSLY PREVIOUSLY PREVIOUSLY PRESENT TORNAL PREVIOUSLY PREVIOUSLY PREVIOUSLY PRESENT TORNAL PREVIOUSLY PREVIOUSLY PRESENT TORNAL PREVIOUSLY PREVIOUSLY PRESENT TORNAL PREVIOUSLY PRESENT TORNAL PREVIOUSLY PREVIOUSLY PRESENT TORNAL PROVIDENCE PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PROVIDENCE PROVIDENCE PROVIDENCE PROVIDENCE PROVIDENCE PROVIDENCE PROVIDENCE PROVIDENCE PROVIDENCE PROVIDENC  | CFR 1.18(4))                       | additional 50 che      | on at the            | ior each     | 11 .:    | .        | ٠.              |                  | . :          | · · · ·         | 1 .            | •               |
| TOTAL  APPLICATION AS AMENDED - PART II  APPLICATION AS AMENDED - PART II  COlumn 1) (Column 2) (Column 3)  COlumn 3) SMALL ENTITY  OR OTHER THAN SMALL ENTITY  OR OTHER THAN SMALL ENTITY  OR OTHER THAN SMALL ENTITY  FREWANNING AFTER PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PREVIOUSLY PAUD FOR AMENDMENT PREVIOUSLY PAUD FOR X DOI:  1   | TIDI E DEDENICIO                   | 2101014 11011          | INCHES SECOND        | FR 1.18(s).  |          |          | -               | <b>.</b>         |              | · [             | 1              |                 |
| APPLICATION AS AMENDED - PART (I)  APPLICATION AS AMENDED - PART (I)  CLAMS REMANING AFTER AMENDMENT PREVIOUSLY PAID FOR COMMENT PREVIOUSLY PAID FOR COMMENT PREVIOUSLY PAID FOR COMMENT PRESENT PRESENTATION OF MULTIPLE DEPENDENT CLAIM (FT OFFI 1.16(g))  CLAMS PRESENTATION OF MULTIPLE DEPENDENT CLAIM (FT OFFI 1.16(g))  CLAMS REMANING ALTER AMENDMENT PREVIOUSLY PAID FOR ADDITIONAL TOTAL ADDITIONAL PRESENT REMANING AFTER AFTER AFTER PREVIOUSLY PRESENT REMANING AFTER AFTER AFTER PREVIOUSLY PRESENT REMANING AFTER AMENDMENT PREVIOUSLY PRESENT RATE (\$) ADDITIONAL RESE (\$)  RESE (\$)  RATE (\$) ADDITIONAL RESE                    |                                    |                        |                      |              | 18       | 0        |                 |                  | 31           | 1               | ╣.             |                 |
| APPLICATION AS AMENDED - PART II  Q + Ob (Column 1) (Column 2) (Column 3) SMALL ENTITY OR OTHER THAN SMALL ENTITY  AFER AMENDMENT PREVIOUSLY PRESENT PREVIOUSLY PAID FOR PRESENT FEE (\$) ADDITIONAL FEE (\$) | he difference in commit            | l is less than zoro, e | enter 10° in colum   | in 2.        |          |          |                 | ٠,               | 26           |                 |                | •••             |
| CLAIMS REMAINING RATE (8) RATE (9) RATE (8) RATE (8) RATE (9) RATE (9  |                                    |                        |                      |              |          | - ا      |                 |                  | TOTAL        |                 | ]              | •               |
| CLAIMS REMARKING AFTER AMENDMENT Total GY CPR Lised  Minus  TOTAL APPROSENTATION OF MULTIPLE DEPENDENT CLAIM GT CPR 1.16(0)  TOTAL AMENDMENT  PRESENT  PRESE  | $\Delta I \Delta I$                |                        |                      |              |          |          | : .             |                  | •            |                 | ] '            |                 |
| AFTER PREVIOUSLY PAID FOR TOWAL FEE (8)  AMENDMENT PAID FOR EXTRA  PREVIOUSLY PAID FOR TOWAL FEE (8)  ADDITIONAL FEE (8)  ADDI  | CI                                 | AIMS                   |                      | (Column 3)   | SM       | ALL ENT  | MΥ              | OR               | HTO          | ER THAN         | ],             | • •             |
| Total   PAID FOR   TIONAL FEE (8)   TOTAL ADDIT FEE   TOTAL ADDIT FEE (9) ADDIT TOTAL TOT  | HIII A                             | TER                    | NUMBER<br>PREVIOUSLY | PŘESENT      | RATE     |          | ADDI:           | 1                | •            |                 | <b>-</b>   · . |                 |
| ENGENERATION OF MULTIPLE DEPENDENT CLAIM (97 OFR 1.16(9))  Application Size Fee (37 OFR 1.16(4))  Application Size Fee (37 OFR 1.16(4))  Application Size Fee (37 OFR 1.16(6))  Application Size Fee (37 OFR 1.16(6))  Application Size Fee (37 OFR 1.16(6))  Minus  Application Size Fee (37 OFR 1.16(6))   | Total :                            |                        | PAID FOR             |              |          | <u> </u> | TOKAL<br>ES (H) |                  | iò(1⊊ (2)    | TIONAL          |                | •               |
| APPRICATION Size Fee (37 CFR 1.16(s))  FREST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (27 CFR 1.16(d))  TOTAL ADD'L FEE  OR X 2202 X 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0  |                                    | Minus                  | -QU                  |              | x 25     |          |                 | OR .             | × 40         | FEE(8)          | ł              |                 |
| FRIST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (\$7 OFF, 1.160)    SO   |                                    | (/) - 1                | 7                    | La_          | . x 101  | =        |                 | - 1              |              | 100             | اند            |                 |
| TOTAL ADD'L REE  CLAIMS  CLAIMS  REMAINING  AFTER  AMENDMENT  Total  AMENDMENT  FREVIOUSLY  PREVIOUSLY  |                                    |                        | I De col a su        |              | (2)      |          |                 |                  |              | 1               | MU             | ,               |
| ADDI FEE OR ADDI FEE  CLAIMS REMAINING AFTER AMENDMENT. PREVIOUSLY PAID FOR CFR 1460  CORMIN 100  RATE (8)  RATE (9)  RATE (8)  RATE (9)  RATE (8)  | • • •                              |                        | THE CLANE OF C       | FF( 1.16@)   |          |          |                 | OR               | 360          | ·               | ٠.             | _               |
| CLAIMS CLAIMS REMAINING AFTER AMENDMENT.  Total   |                                    |                        | •                    |              |          | E .      |                 | OR C             | TOTAL        | 1               | • .            | •               |
| REMAINING AFTER AFTER AMENDMENT Total FOR Lieft FAID FOR  | CLA                                | MS T                   | (Odumn 2)            | (Cokann 3)   |          |          | ,               | •                | . TOUTER.    | لسبنسا          |                | •               |
| Total AMENDMENT. PAID FOR TIONAL FEE (\$)  TOTAL MINUS 22D  | REMA                               | NING ER                | NUMBER -             | PRESENT      | RATEC    | T. AI    | DOL             | Γ                | D.100        |                 | •              | •               |
| Adependent X = OR X = O  | Total                              | MCT(1.                 | PAID FOR             | EXITA        |          | TIC      | XXAL<br>E(t)    |                  | HATE (1)     | TIONAL          | •              |                 |
| PPRICE ION Stree Fee (37 CFR 1.16(6))  REST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (17 CFR 1.16(f))  OR X = 100 CFR 1.16(f)   | ndependent                         |                        |                      | <b>.</b>     | ·x       | ,        | 71.             | :  -             |              | FEE (I)         |                | .*              |
| REST PRESENTATION OF MULTIPLE DEPENDENT OLAIM (17 OFR 1.160)  |                                    |                        | 6 .                  | = /.         | ×        |          | 77              | · F              |              | <del>/</del> 1. | •              |                 |
| TOTAL   |                                    |                        |                      | 7            |          | 二        | ≠J°             | R  X             | =            | -/-             |                |                 |
| Torret  | TILDENIATION OF                    | NUTIPLE DEPEKDEN       | TOLAIN' (17 OFF      | k 1.1eф      |          |          | /   ,           | <u>,</u> †       |              | /-              | •              |                 |
| the entry in column 1 is less than the entry in column 2, write "0" in column 8.  ADD'L FEE OR TOTAL  ADD'L FEE   |                                    |                        |                      | •            | TOTAL    | 1.       |                 | <u> </u>         | OTAL .       | <del>/</del> :  |                | . ;             |

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